



Air-X-Changers

Harsco

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Job Number

A055151

Initial Release Date

04/15/10

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1	Purchaser	NGC	Ultimate User	CNRL
2	Inquiry / PO#	PO-8139, TAG JOB 16974-NR	Destination	BUCKLINGHORSE
3	Number of Units	1	Reference	7042GSI-JGK/4 @ 1478 BHP
4	Assembly	PACKAGED	Draft	INDUCED
			Overall Size(WLH)	~ Est. Weight 22600

PERFORMANCE

Service	*IC-1	*IC-2	*AC
Flow			
Fluid			
Temp. In / Out, f			
Pressure, psia			
Pressure Drop, psi			
Heat Load, btu/hr			
True LMTD, f			
Overall Rate, U, btu/hr sq ft f			
Fouling Factor, sq ft hr h / btu			
Surface, Bare / Extended, sq. ft	290 / 4327	419 / 6236	312 / 4645
Sections, Number/Connected	(1) SINGLY	(1) SINGLY	(1) SINGLY
Design Temp (Max / Min), f	350/-40	350/-40	350/-40
Design / Test Pressure, psig	645 / 839	1287 / 1674	1650 / 2145
Pass Arrangement	CROSSFLOW	CROSSFLOW	CROSSFLOW
Number Tube Rows / Tube Passes	5 / 1	5 / 2	5 / 2
Section Weight, lbs	2250	3100	2650
Tubes, OD x BWG	3/4X16(.060MIN)	3/4X16(.060MIN)	5/8X16(.060MIN)
Material	SA179 STEEL	SA179 STEEL	SA179 STEEL
Number per section / Length, ft	66 / 22	98 / 22	78 / 22
Retarders			
Accelerators			
Fins, Type	L-TENSION/WHEEL	L-TENSION/WHEEL	L-TENSION/WHEEL
Material	ALUMINUM	ALUMINUM	ALUMINUM
Nozzles, Rating / Type	300 RF	600 RF	900 RF
Material / Bore	SA350 LF2 / SCH-80	SA350 LF2 / SCH-160	SA350 LF2 / SCH-160
(Number of Inlets) / Size, in	(1) / 6 Inch	(1) / 4 Inch	(1) / 3 Inch
(Number of Outlets) / Size, in	(1) / 6 Inch	(1) / 4 Inch	(1) / 3 Inch
Headers, Type	BOX W/PLUGS	BOX W/PLUGS	BOX W/PLUGS
Material	SA516 70(N)	SA516 70(N)	SA516 70(N)
Corrosion Allowance, in	0.125	0.125	0.125
Grooved Tubesheet	YES	YES	YES
Plugs, Type	SHOULDER	SHOULDER	SHOULDER
Material	SA350 LF2	SA350 LF2	SA350 LF2
Industry Specifications	AXC-STD	AXC-STD	AXC-STD
ASME Code Stamp / National Board	YES	YES	YES
Canadian Registration Number	YES	YES	YES
PWHT	YES	YES	YES
NACE			
Inspection / NDT	UB	UB	UB

F = 100% R.T. of all header seam & nozzle butt welds plus 100% U.T. of all attachment welds

S = Spot R.T. of one long seam and one end closure, per header

U = 100% U.T. of all header seam, attachment and nozzle butt welds

B = 100% R.T. of all nozzle butt welds

SB = **S PLUS B** as each are described above

UB = **U PLUS B** as each are described above

AIR SIDE PERFORMANCE	FAN DATA	DRIVER DATA	REDUCER DATA
Ambient Air Temp., In, f 90	No. Fans / Make Existing	Type Existing	Type Existing
Elevation, ft 3674	Blade Material		
Air Flow, SCFM 90620.7	HP@RPM		
Air Temp., Out, f 132.7	Dia., in / No. Blades		
Min. Ambient, f -40	Blade Angle, Deg		
	Series/Blade Adj.		
	Fan Hub Bushing		

*** Sections Only**

REV	DATE	BY	DESCRIPTION
1	04/19/10	SW	Revised AC tube OD, number of tubes, and tube passes